

1634

#12  
KAY  
9-17-02

ENTERED

RECEIVED  
FBI CENTER 1600/2900

AUG 13 2002

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/516,444A

DATE: 08/08/2002

TIME: 12:03:45

Input Set : A:\5995USP2.txt

Output Set: N:\CRF4\08082002\I516444A.raw

4 <110> APPLICANT: Abbott Laboratories  
 5 Billing-Medel, Patricia A.  
 6 Cohen, Maurice  
 7 Colpitts, Tracey L.  
 8 Friedman, Paula N.  
 9 Gordon, Julian  
 10 Granados, Edward N.  
 11 Hodges, Steven C.  
 12 Klass, Michael R.  
 13 Kratochvil, Jon D.  
 14 Roberts-Rapp, Lisa  
 15 Russell, John C.  
 16 Stroupe, Stephen D.  
 18 <120> TITLE OF INVENTION: Reagents And Method Useful For Detecting  
 19 Diseases Of The Breast  
 22 <130> FILE REFERENCE: 5995.US.P2  
 24 <140> CURRENT APPLICATION NUMBER: 09/516,444A  
 25 <141> CURRENT FILING DATE: 2000-02-29  
 27 <150> PRIOR APPLICATION NUMBER: US 08/962,094  
 28 <151> PRIOR FILING DATE: 1997-10-31  
 30 <150> PRIOR APPLICATION NUMBER: US 08/742,067  
 31 <151> PRIOR FILING DATE: 1996-10-31  
 33 <160> NUMBER OF SEQ ID NOS: 39  
 35 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 37 <210> SEQ ID NO: 1  
 38 <211> LENGTH: 201  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: EST Clone 1662885  
 W--> 45 <221> NAME/KEY: misc\_feature  
 46 <222> LOCATION: (26)...(26)  
 47 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at  
 48 position 26  
 W--> 50 <221> misc\_feature  
 51 <222> LOCATION: (98)...(98)  
 52 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at  
 53 position 98  
 W--> 55 <221> misc\_feature  
 56 <222> LOCATION: (133)...(133)  
 57 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at  
 58 position 133  
 W--> 60 <221> misc\_feature

RECEIVED

AUG 13 2002

TECH CENTER 1600/2900

## RAW SEQUENCE LISTING

DATE: 08/08/2002

PATENT APPLICATION: US/09/516,444A

TIME: 12:03:45

Input Set : A:\5995USP2.txt

Output Set: N:\CRF4\08082002\I516444A.raw

```

61 <222> LOCATION: (145)...(145)
62 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
63     position 145
W--> 65 <221> misc_feature
66 <222> LOCATION: (183)...(183)
67 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
68     position 183
W--> 70 <400> 1
W--> 71 ctcttaggct ttgaagcatt tttgtntgtg ctccctgac ttcatgtcac caccatgaag 60
W--> 72 ttcttagcag tcctggtagt cttgggagtt tccatctntc tggctctctgc ccagaatccg 120
W--> 73 acaacagctg ctncagctga cacgnatcca gctactggtc ctgctgatga tgaagccccct 180
W--> 74 gangctgaaa ccaactgctgc t                                     201
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 308
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 2
82 taggctttga agcatttttg tctgtgctcc ctgatottca ggtaaccacc atgaagttct 60
83 tagcagtcct ggtactcttg ggagtttcca tctttctggt ctctgccag aatccgacaa 120
84 cagctgctcc agctgacacg tatccagcta ctggtcctgc tgatgatgaa gcccctgatg 180
85 ctgaaaccac tgctgctgca accactgcga ccaactgctgc tctaccact gcaaccaccg 240
86 ctgcttctac cactgctcgt aaagacattc cagttttacc caaatgggtt ggggatcttc 300
87 cgaatggt                                     308
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 292
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: EST Clone 901429
W--> 97 <221> NAME/KEY: misc_feature
98 <222> LOCATION: (236)...(236)
99 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
100     position 236
W--> 102 <221> misc_feature
103 <222> LOCATION: (259)...(259)
104 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
105     position 259
W--> 107 <400> 3
108 gcatttttgt ctgtgctccc tgatcttcat gtcaccacca tgaagttctt agcagtcctg 60
109 gtactcttgg gagtttccat ctttctgggc tctgccaga atccgacaa agctgctcca 120
110 gctgacacgt atccagctac tggctcctgct gatgatgaag cccctgatgc tgaaaccact 180
W--> 111 gctgctgcaa ccaactgcgac cactgctgct cctaccactg caaccaccgc tgcttntacc 240
W--> 112 actgctcgtg aagacattnc agttttaccc aaatgggttg gggatctccc ga       292
114 <210> SEQ ID NO: 4
115 <211> LENGTH: 197
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 4
120 gttttaccca aatgggttgg ggatctcccg aatggtagag tgtgtccctg agatggaatc 60

```

## RAW SEQUENCE LISTING

DATE: 08/08/2002

PATENT APPLICATION: US/09/516,444A

TIME: 12:03:45

Input Set : A:\5995USP2.txt

Output Set: N:\CRF4\08082002\I516444A.raw

```

121 agcttgagtc ttctgcaatt ggtcacaaact attcatgctt cctgtgattt catccaacta 120
122 cttaccttgc ctacgatata ccctttatct ctaatcagtt tattttcttt caaataaaaa 180
123 ataactatga gcaacat 197
125 <210> SEQ ID NO: 5
126 <211> LENGTH: 472
127 <212> TYPE: DNA
128 <213> ORGANISM: Homo sapiens
130 <400> SEQUENCE: 5
131 ctcttaggct ttgaagcatt tttgtctgtg ctccctgata ttcattgtcac caccatgaag 60
132 ttcttagcag tcttggtact cttgggagtt tccatctttc tggctctctgc ccagaatccg 120
133 acaacagctg ctccagctga cactgatcca gctactggtc ctgctgatga tgaagccct 180
134 gatgctgaaa ccaactgctg tgcaaccact gcgaccactg ctgctcctac cactgcaacc 240
135 accgctgctt ctaccactgc tcgtaaagac attccagttt taccctaatg ggttggggat 300
136 ctcccgaaatg gtagagtgtg tccctgagat ggaatcagct tgagtcttct gcaattgggc 360
137 acaactattc atgcttctctg tgatttcatc caactactta ccttgcctac gatatccct 420
138 ttatctctaa tcagtttatt ttctttcaaa taaaaaataa ctatgagcaa ca 472
140 <210> SEQ ID NO: 6
141 <211> LENGTH: 473
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 6
146 ctcttaggct ttgaagcatt tttgtctgtg ctccctgata ttcattgtcac caccatgaag 60
147 ttcttagcag tcttggtact cttgggagtt tccatctttc tggctctctgc ccagaatccg 120
148 acaacagctg ctccagctga cactgatcca gctactggtc ctgctgatga tgaagccct 180
149 gatgctgaaa ccaactgctg tgcaaccact gcgaccactg ctgctcctac cactgcaacc 240
150 accgctgctt ctaccactgc tcgtaaagac attccagttt taccctaatg ggttggggat 300
151 ctcccgaaatg gtagagtgtg tccctgagat ggaatcagct tgagtcttct gcaattgggc 360
152 acaactattc atgcttctctg tgatttcatc caactactta ccttgcctac gatatccct 420
153 ttatctctaa tcagtttatt ttctttcaaa taaaaaataa ctatgagcaa cat 473
155 <210> SEQ ID NO: 7
156 <211> LENGTH: 68
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Restriction site
163 <400> SEQUENCE: 7
164 agctcggaat tccgagcttg gatcctctag agcggccgcc gactagttag ctcgtcgacc 60
165 cgggaatt 68
167 <210> SEQ ID NO: 8
168 <211> LENGTH: 68
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Restriction site
175 <400> SEQUENCE: 8
176 aattaattcc cgggtcgacg agctcactag tcggcggccg ctctagagga tccaagctcg 60
177 gaattccg 68
179 <210> SEQ ID NO: 9
180 <211> LENGTH: 24

```

## RAW SEQUENCE LISTING

DATE: 08/08/2002

PATENT APPLICATION: US/09/516,444A

TIME: 12:03:45

Input Set : A:\5995USP2.txt

Output Set: N:\CRF4\08082002\I516444A.raw

```

181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Universal Primer
187 <400> SEQUENCE: 9
188 agcggataac aatttcacac agga 24
190 <210> SEQ ID NO: 10
191 <211> LENGTH: 18
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Universal Primer
198 <400> SEQUENCE: 10
199 tgtaaaacga cggccagt 18
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 20
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Primer
209 <400> SEQUENCE: 11
210 actgctcgta aagacattcc 20
212 <210> SEQ ID NO: 12
213 <211> LENGTH: 19
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Primer
220 <400> SEQUENCE: 12
221 gggacacact ctaccattc 19
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 20
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Sense Primer
231 <400> SEQUENCE: 13
232 aagcccctga tgctgaaacc 20
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 23
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Antisense Primer
242 <400> SEQUENCE: 14
243 tgcagaagac tcaagctgat tcc 23
245 <210> SEQ ID NO: 15
246 <211> LENGTH: 20
247 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 08/08/2002

PATENT APPLICATION: US/09/516,444A

TIME: 12:03:45

Input Set : A:\5995USP2.txt

Output Set: N:\CRF4\08082002\I516444A.raw

```

248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Target-Specific Forward Primer
253 <400> SEQUENCE: 15
254 aagccccctga tgctgaaacc                                20
256 <210> SEQ ID NO: 16
257 <211> LENGTH: 23
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Target-Specific Reverse Primer
264 <400> SEQUENCE: 16
265 tgcagaagac tcaagctgat tcc                                23
267 <210> SEQ ID NO: 17
268 <211> LENGTH: 15
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Probe
275 <400> SEQUENCE: 17
276 gaccactgct gctcc                                        15
278 <210> SEQ ID NO: 18
279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Sense Primer
286 <400> SEQUENCE: 18
287 actgctcgta aagacattcc                                20
289 <210> SEQ ID NO: 19
290 <211> LENGTH: 19
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Antisense Primer
297 <400> SEQUENCE: 19
298 gggacacact ctaccattc                                19
300 <210> SEQ ID NO: 20
301 <211> LENGTH: 90
302 <212> TYPE: PRT
303 <213> ORGANISM: Homo sapiens
305 <400> SEQUENCE: 20
306 Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu
307 1          5          10          15
308 Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro
309 20          25          30
310 Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala
311 35          40          45
312 Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala

```

## VERIFICATION SUMMARY

DATE: 08/08/2002

PATENT APPLICATION: US/09/516,444A

TIME: 12:03:46

Input Set : A:\5995USP2.txt

Output Set: N:\CRF4\08082002\I516444A.raw

L:45 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:55 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:60 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:65 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:70 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:180  
L:97 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:102 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3  
L:107 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240



Creation date: 11-14-2003  
Indexing Officer: QNGUYEN5 - QUANG NGUYEN  
Team: OIPEBackFileIndexing  
Dossier: 09516444

Legal Date: 10-02-2003

| No. | Doccode | Number of pages |
|-----|---------|-----------------|
| 1   | CTRS    | 6               |
| 2   | NFDR    | 1               |
| 3   | EXIN    | 1               |

Total number of pages: 8

Remarks:

Order of re-scan issued on .....